

(28)

	Volume (ml)	Strength	
20%	Amt of Solution	% acid	Amt of Acid (ml)
Start	60	.20	12
5% add	X	.05	.05X
Total	60+X	.10	$12 + .05X$ $.10(60+X)$

let $x = \text{ml of } 5\% \text{ acid solution added}$

$$12 + .05X = .10(60+X)$$

$$1200 + 5x = 10(60+x)$$

$$1200 + 5x = 600 + 10x$$

$$600 = 5x$$

$$120 = x$$

Add 120mL to the 20%